1 -	COST	13/4 RT	R.Ye.
	1 75.1	1 1 1 1 1 2 -	11-15-

- 2. USBR (600)
- 4. Electric Switchgear
- 7. Disconnecting switches for the internal installation of the plant of the Ministry of Electric Power Stations and Electrical Industry, Eng. R.Ye. Gel'man, Prom.energ. 10 no. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, AHIL 1953, Uncl.

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6 The state of the s

Electric engineering. Page 88. Cables trademark SG, SA, SBG, SB, SPG, SP, SK, SBG-IK, SB-IK, SBG-2K, SB-2K manufactured by plants of the Minis-

try of Electric Power Stations and Electrical Industry (specifications and

والمرابع والمتعارض والمتعا

GEL! MAN, R.E., inzhener.

weight of lead, kg/km). Prom. energ. 10 no.5:31 My '53. (NIBA 6:5) (Mectric cables)

CIA-RDP86-00513R000514710007-6" APPROVED FOR RELEASE: 08/31/2001

工計1000日 阿羅斯爾斯 於蘇

AVINOVITSKIY, I.Ya.: ALEKSEYEV, S.V.; BARAKOV, B.M.; GEL'MAI, R.Ye.;

DVOSKIN, L.I.; DOLGINOV, A.I.; YERMILOV, A.A.; ZALESSKIY, Yu.Ye.;

KAMEHEVA, V.V.; KLIMIKSEYEV, V.M.; KHYAZEVSKIY, B.A.; KUZNETSOV,

P.V.; RIVKIN, G.A.; FEDOROV, A.A.; SERBIHOVSKIY, G.V., red.;

BOL'SHAM, Ya.M., red.; BRANDEHBURGSKAYA, E.Ya., red.; VORONIN,

K.P., tekhn. red.

[Manual for power engineers of industrial enterprises in four volumes] Spravochnik energetika promyshlennykh predpriiatii v chetyrekh tomakh. Moskva, Gosenergoizdat. Vol.1. [Electric power supply] Elektrosnabzhenie. Pod obshchei red. A.A.Fedorova, G.V. Serbinovskogo i IA.M.Bol'shama. 1961. 840 p. (MIRA 15:6) (Electric engineering)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

BACHELIS, D.S.; GEL'MAN, R.Ye.; DUTKIN, G.S.; KULESHOV, Ya.G.;
NIKULIN, N.V.; RYVKIN, G.A.; SADKIN, P.I.; SMIRNOV, A.D.;
SOLOV'YEV, P.F.; KHALIZEV, G.P.; SMIRNOV, A.D., inzh., red.;
SOLOV'YEV, P.F., red.; BORUNOV, N.N., tekhn. red.

[Manual for electricians in two parts]Spravochnik elektrotekhnika v dvukh tomakh. Pod obshchei red. A.D.Smirnova. Moskva, Gosenergoizdat. Vol.1. 1962. 479 p. (MIHA 15:5) (Electric engineering—Handbooks, manuals, etc.)

GEL'MAN, R.Ye.; KULESHOV, Ya.T.; SADKIN, P.I.[deceased]; SMIRNOV,
A.D., Inizh., red.; SEGAL, Ye.I., red.; EORUNGV, N.I.,
tekhn. red.

[Electrician's manual in two volumes] Spravochnik elektrotekhnika v dvukh tomakh. Pod obshchei red. A.D.Smirnova. Moskva, Gosenergoizdat. Vol.2. No.1. [High-voltage apparatus] Apparatura vysokogo napriazheniia. 1963. 104 p. (MIRA 16:11)

(Electric engineering-Handbooks, manuals, etc.)

GEL'MAN, R.Ye.; KULESHOV, Ya.T.; SADKIN, P.I.[deceased]; SMIRNOV, A.D., inzh., red.; BORUNOV, N.I., tekhn. red.

[Manual for electricians in two volumes] Spravochnik elektrotekhnika v dvukh tomakh. Pod obshchei red. A.D. Smirnova. Moskva, Gosenergoizdat. Vol.2. [Complex electrical equipment] Kompleksnoe elektrooborudovanie. 1963. 255 p. (MIRA 17:2)

GELIMAN, M.Ye., insh.; THITLIN, V.C., insh.; H.HERL, J.D., insh.

[Electricians manual on two volumes] Sprayochnik elektrotekhnika v dvukh tomakh. Moskva, Izd-vo "Emergiis." Vol.2. No.5. [Start regulating apparatus] Emskoreguliruiushchaia apparatura. 1964. 199 p. (MIE 17:8)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

GEL'MAN, R.Ye.; MESTECHKIN, M.M.; SMIRNOV, A.D., inzh., red.

[Electrical engineering manual in two volumes] Spravochnik elektrotekhnika v dvukh tomakh. Moskva, Energiia. Vol.2. 1964. 184 p. (MIRA 17:12)

GEL'MAN, R.Ye.; KULESHOV, Ya.T.; SAVOST'YAHOV, A.I.; SMIRGOV,
A.D., inzh., red.

[Electrical engineering handbook in two volumes] Spravochnik elektrotekhnika v dvukh tomakh. Moskva, Energiia.
Vol.2. No.3. 1965. 240 p. (MIRA 18:6)

\$/001/62/000/003/054/090 B149/3102

AUTHOR:

Geliman, S. A.

TITLE:

Lengthening the life of concrete in marine hydrotechnical

constructions erected in the Far North

PERIODICAL: Referatively zhurnal. Khimiya, no. 3, 1962, 391, abstract 3K353 (Tr. H.-i. in-ta betona i zhelezebetona, Akad. str-va

i arkhitekt. SSSR, no. 22, 1961, 95 - 104)

TEXT: Methods are described and preliminary results given of a two year test of frost-resisting properties of 20 cm concrete cubes under the natural conditions of Kola Bay. The samples of concrete tested were of identical composition by weight, with or without air-absorbing additives (abietic tar neutralized with NaOH); cement consumption and ease of laying were assumed to be identical for both types of concrete. The same ease of laying in the case of concrete with adecd abietic acid was obtained by decreasing the ratio water/cement from 0.48 to 0.43. Towards the end of the second winter (after 750 cycles of freezing and thawing) all the samples without the admixture of tar had completely disintegrated,

Card 1/2

Lengthening the life of ...

\$/081/62/000/005/054/070 B149/£102

those with the admixture had lost < 1% of their weight. By means of hirabsorbing additives it is possible to increase considerably the resistance to freezing of concrete in marine hydrotechnical constructions. [Abstracter's note: Complete translation.]

Card 2/2

6949. MARKOV, D. A. i GEL'MAN, T. M. Epilepsii i ikh lecheniye. Minsk, Izd-vo Akad. nauk BSSR, 1954 -296s. a ill. 23 sm. (Belorus, nauch.-issled. in-t nevrologii, neyrokhirurgii, fizioterapii i klinika nervnykh bolezney Belorus, in-ta usovershenstvovaniya vrachey). 7.000 ekz. 10r. V per. -Bibliogr: s. 286-294.-55-1947/p 616-853+016-37

Knizhnaya Letopis' No. 6, 1955

GEL'MAN, T. E.

ni seopherini esperimente de la compositoria de compositoria de la compositoria della com

GEL'MAN, T.M.; POLESSKAYA, L.P.

Treatment of epilepsy with hexanidine. Zdrav.Helor. 5 no.7:
34-36 Jl '59. (MIRA 12:9)

1. Belorusakiy nauchno-issledovatel'skiy institut nevrologii.
nayrokhirurgii i fizioterapii (direktor Is.F. Helitovskiy,
nauchnyy rukovoditel' - akndemik D.A. Markov).

(RPILMPSY) (PYRIMIDINE)

- 1. GEL'MAN, V.
- 2. USSR (600)
- 4. Machine Tractor Stations
- 7. Bashtanka Machine-Tractor Station struggles to achieve high yields. MTS No. 12 1952

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

			- 2
	GEL'ME	N, V.A.	
•	USSR/ Miscel	aneous - Industrial processes	
	(lard 1/1	Pub. 104 - 10/11	
	huthors	Geliman, V. A., and Shibayeva, Z. M.	
	"litle	Method of liquidating waste during kilning of large-size glass objects	
	lieriodicall	Stek, i ker. 2, 29 - 30, Feb 1955	
	Abstract	Announcement is made by the Ceramics and Refractories Laboratory of the Central Glass Scientific Research Institute on the development of a method for the elimination of waste during the kilning of large-size glass or ceramic objects. Some results obtained by means of the new method, are	
		listed. Drawings; graph.	
	Enstitution:	listed. Drawings; graph.	
	Enstitution:	listed. Drawings; graph.	
	* :	listed. Drawings; graph.	
	* :	listed. Drawings; graph.	

ACC NR: AP6018014

(A)

SOURCE CODE: UR/0413/66/000/010/0146/0146

INVENTOR: Gel'man, V. A.; Zatsepina, N. S.

ORG: None

TITLE: A highly refractory material. Class 80, No. 182040

三十二十二世界政策等 二百五十二

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 10, 1966, 146

TOPIC TAGS: refractory compound, refractory product

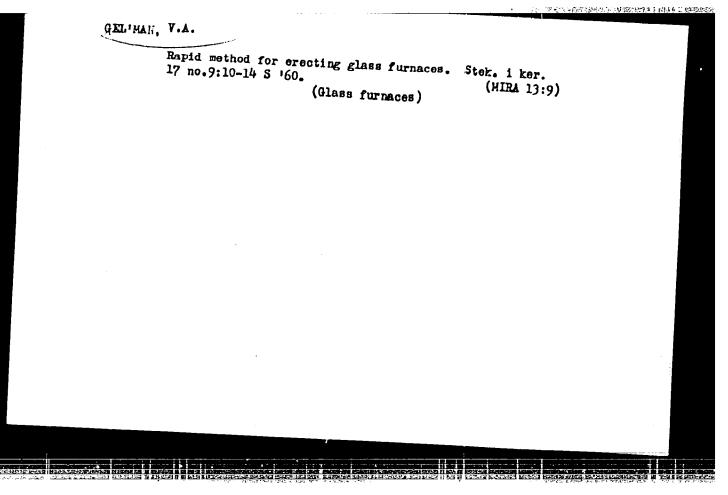
ABSTRACT: This Author's Certificate introduces a highly refractory material for making heat resistant products. The material is based on artificial corundum, aluminum hydroxide and a phosphate binder. The heat resistance of finished products is increased by making the material from the following components (in wt.%): white synthetic corundum—41-47% with 0.8-1 mm grains and 32-37% with 0.03-0.05 mm grains; 9-10% aluminum hydroxide with a specific surface of 700 cm²; 6-18% orthophosphoric acid (60% concentration).

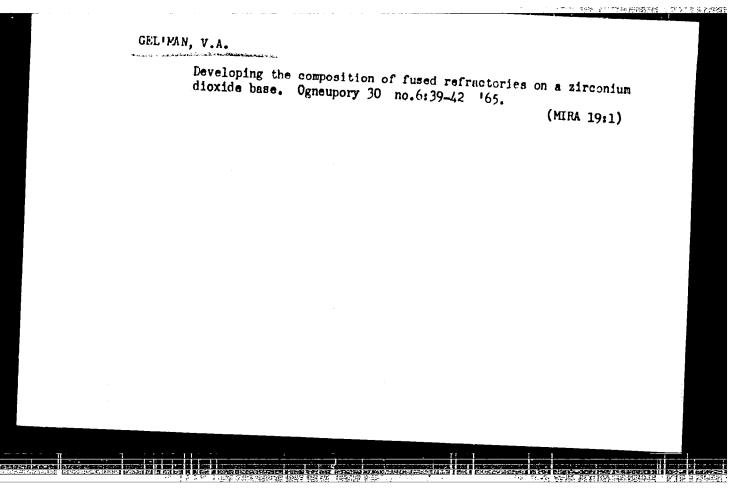
SUB CODE: 11, 07/ SUBM DATE: 10Apr64

Card 1/1

UDC: 666.764.32

一元 的特殊的文化医院 对线经线





17(5,8)

SOV/177-58-4-26/32

AUTHOR:

Gel'man, V.B.. Dental Technician

TITLE:

A Complex KPN-56-type Apparatus for Manufacturing

Metallic Crowns of the Teeth (Kompleksnyy apparat KPN-56

dlya izgotovleniya zubnykh metallicheskikh koronok)

PERIODICAL:

Voyenno-meditsinskiy zhurnal, 1959, Nr 4, pp 88-89 (USSR)

ABSTRACT:

The author suggests a complex apparatus (weight 1,500 grams) for manufacturing metal crowns of teeth, which is presently being tested at the Zubotekhnicheskaya laboratoriya stomatologicheskoy polikliniki Kiyevskogo voyennogo okruga (Laboratory of Dentistry at the Stomatological Polyclinic of the Kiyev Military District).

There are 2 photographs.

Card 1/1

KUL'TEPINA, O.S.; GEL'MAN, V/B.

Case of Niemann-Pick disease. Vop. okhr. mat. 1 det. 6 no. 1:90-92
Ja '61.

1. Iz kafedry detskikh bolezney (zav. - prof. Ye.D. Belyayeva)
Kalininskogo meditsinskogo instituta (dir. - dotsent A.I. Kushnev)
1 2-y gorodskoy bol'nitsy (glavnyy vrach O.A. Gol'dzamid).

(LIPIDOSIS)

ENG(5)/EMP(a)/EPA(6)-2/EMT(m)/EPP(c)/EMI(1)/EPP(n)-2/EPR/T/ IJP(c) JD/W/JO/WH EPA(w)-2/14P(t)/14P(b) Pab-10/Pq-4/Pr-4/Ps-4/Pt-7/14-1 UR/01:1/65/000/005/0039/0042 ACCESSION NET: AF5015876 666.1.031..2.043.1 AUTHOR: (lel. man, V. A. TITIE: Daviloping the composition of fused refractories based on lirconius SOURCE: Ogneupory, no. 6, 1965, 39-42 TOPIC TAGS: high melting glass, sirconium dioxide, cluminosilicate glass, baddeleyite, refractory material, are furnace, tank furnace spalling resistance ABSTRICT: In order to develop a refractory material resistant to high-melting glass at temperatures exceeding 1700°C, a series of super-duty refractory compounds in the systems ZrO2-Al203-CaO, ZrO2-Al203-IgO, ZrO2-CaO, ZrO2-HgO, and Al 201 MgO, has been investigated. The raw materials used were technical zirconium dioxide (97.5% ZrO2), technical alumina (grade G-00), magmesium oxide (92.25 Hg), and pulverized chalk (98.05 CaCO3). Specimens of the material were obtained by smelting briquetted charge in a laboratory three-phase arc THE REPORT OF LABOR OF BUILDING

L 57015-65

ACCESSION NR: AP5015876

furnace with subsequent casting of melt into graphite molds. Altogether, five two-component and five three-component compounds were investigated. Their softening points under deformation proved to be 100-1;0°C higher than those of the two standard refractories with which they were compared. Tests for resistance to molten aluminosilicate glass here performed in crucibles at 1650 and 1750°C for 3 hr, using specimens measuring loxloxloo mm. At 1650°C all specimens passed these tests: at 1750°C only specimens of compound No. 8 (60.1% 20°C), 35.2% Al203, 4.5% CaO) remained highly spalling-resistant. Microscopic analysis showed that the principal minerals present in the ingot of compound No. 8 are taddeleyite and corundum. The ingot contains not only the monoclinic but also the tetragonal varieties of zirconium dioxide, which considerably enhances the spalling resistance of this material. Therefore, in order to test this refractory compound in experimental and industrial glass-founding tank furnaces designed to operate at temperatures of more than 1700°C, these manufacturing technology for this compound should be sorked out. Orig. art.

5.是透時,蘇聯聯盟。如實際的

ASSOCIATION: none

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

NAMES | 89 COST.5

"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6

L 57015-65		
ACCESSION HR: AF5015876 SUBMITTEE: OO K	RUB C	COTTO 1 1664 BOTE
	THER! COO	(ODE : 184), 147
(L/1) Card 3/3		

Problem of sudden death from cytomogaly. Vop. okh. mat. 1 det. 7 no.3:
83-85 Mr '62. (MIRA 15:5)

1. Iz kafedry sudebnoy meditsiny (zav. - dotsent A.V.Kapustin)
Kalininskogo meditsinskogo instituţa.
(VIRUS DISEASES)

(VIRUS DISEASES)

GELMAN, V. G.,

BYKOV, P.B.; KHANKIN, L.D.; MAKKYEV, G.M., inthener, retsenzent; GEL'MAN,
V.G., inzhener, redaktor; POPOLOV, Ya.N., inzhener, redaktor

'izdatel' stva; TIKHONOV, A.Ya., tekhnicheskiy redaktor

[Roducing setup, man and down time in lathe work] Sokrashchenie
vspomogatel' nogo vremeni pri rabote na tokarnykh stankakh. Moskva,
Gos. nauchno-tekhn. ind-vo mashinostroit. lit-ry, 1956. 166 g.

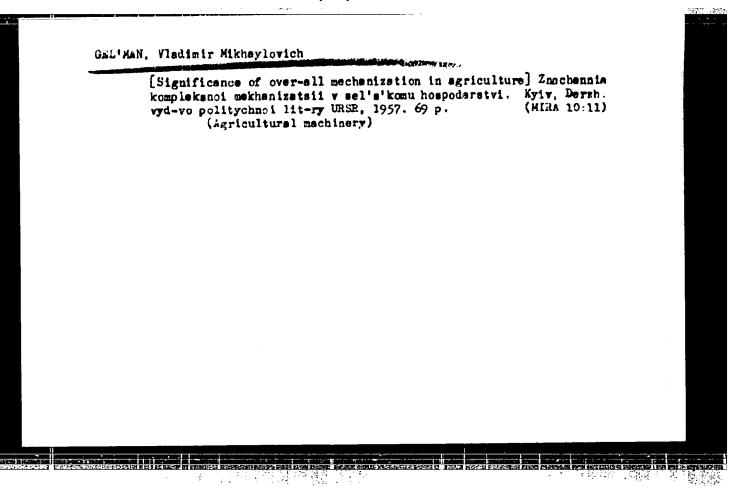
(Turning)

(MIRA 9:12)

GEL'MAN, V.M., kandidat ekonomicheskikh nauk; PERSHIN, P.N., akademik, "Tedaktor; BANNIKOV, N.I., redaktor; MUSHTAKOVA, L.P., tekhnicheskiy redaktor

[Ways of reducing labor expenditure in agriculture] Puti znizheniia zatrat truda v seliskom khoziaistve. Pod red. P.M.Pershina. Moskva. Gos. izd-vo selikhoz. lit-ry. 1956. 221 p. (MIRA 10:3)

1. Akademiya nauk UESR, Kiyev. Institut ekonomiki. (Agriculture--Economic aspects) (Farm management)



8(5)

SOY/112-59-4-7205

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, Nr 4, p 111 (USSR)

AUTHOR: Gel'man, V. M.

TITLE: Power Equipment in Socialist Agriculture

PERIODICAL: Kolgospnik Ukraini, 1957, Nr 10, pp 5-7 (Original in Ukrainian)

ABSTRACT: Increased use of power equipment in the agriculture of Ukraine is shown in the article. Tractors were used 5.3 hp in 1940, 6.3 hp in 1950, and 8.9 hp in 1955 per 100 hectars of tilled land. There were 54,900 automobiles used in Ukrainian agriculture in 1941, 65,900 in 1951, and 102,300 in 1956. In 1957, the number of machine-tractor stations and other specialized machine stations reached 1,369. Ukrainian agriculture has been electrified to a considerable degree: 72.4 million kwh were produced in 1940 by rural generating stations, and 455.2 million kwh in 1955. Forty rayons have been completely electrified. All machine-tractor stations and 5,600 kolkhozes have been electrified. In addition, 5,700 kolkhozes derive their electric energy from machine-tractor-station plants. Great attention is paid to utilizing wind energy.

Card 1/1

GEL'MAN, V.M. [Hel'man, V.M.], kand.ekon.nauk

How the "Shliakh Illicha" Collective Farm uses its acquired machinery.

Mekh. sil'. hosp. [9] no.5:4-5 My '58. (MIRA 11:6)

(Vasilyevka District--Tractors)

del'MAN, Vladimir Mikhaylovic'; NATANZON, I.I. [Natanzon, I.Y.] kand.
tekhn.neuk, glavnyy red.

[Organization of the maintenance of tractors and agricultural machinery on Ukrainian collective farms] Organizatsiia zberihannia mashynno-traktornoho parku v kolhospakh Ukrainy. Kyiv, 1959. 29 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan! Ukrain-s'koi RSR. Ser.6, no.16) (MIRA 13:1)

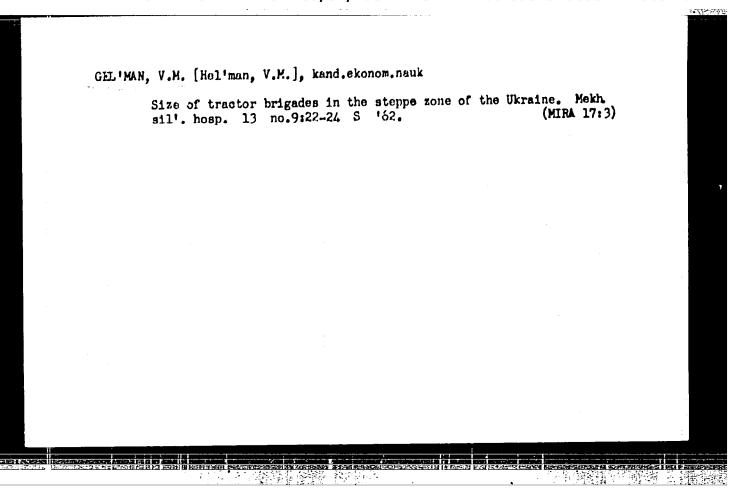
(Ukraine--Agricultural machinery---Maintenance and repair)

GHL'MAN, V.M. [Hel'man, V.M.], kand.ekon.nauk

Most important factor in increasing labor productivity
on collective farms. Mekh.sil'.hosp. 10 no.12:9-11
D '59.

(Collective farms--Labor productivity)

(Collective farms--Labor productivity)



GEL'MAN, V.M. [Hel'man, V.M.], kand. ekon. nauk; FTOMOV, G.S. [Ftomov, H.S.]

Problems involved in wages for machinery operators on collective farms. Visnyk AN URSR 30 no.8:28-38 Ag '59.

(MIRA 13:1)

(Farm mechanization) (Wages)

GEL'MAN, V.M. [Hel'man, V.M.], kand.ekon.nauk

Promising possibilities for lowering production costs on collective farms. Mekh. sil'.hosp. 11 no.8:18-19 Ag '60. (MIRA 13:9)

(Collective farms—Costs)

GEL MAN, Vladimir Mikhaylovich [Hel'man, V.M.]; FRANCHUK, P.O., red. DAKHNO, Yu.M., tekhn.red.

[Effectiveness of the over-all mechanization of agriculture]
Efektyvnist' kompleksnoi mekhanizatsii v sil's'komu hospodarstvi. Kyiv, Vyd-vo Akad.nauk URSR, 1961. 84 p.

(MIRA 15:4)

(Ukraine-Farm mechanization)

GEL'MAN, V. M. [Hel'man, V. M.], kand. ekonom. nauk; STEFANCHENKO,
L. I., kand. ekonom. nauk

Forms of the organization of the work of mechanizers on collective farms. Mekh. sil'. hosp. 14 no.1:17-21 Ja '63.

(Wiraine—Farm mechanization)

(Ukraine—Farm mechanization)

GEL! MAN, V.Ye.; FUKSMAN, I.Ya.

New method of controlling the calcination of bone charcoal Sakh. prem. 32 no.11:31-32 N '58. (MIRA 11:12)

1. TSentral'neye kenstrukterskeye byure Kiyevskege sevnarkheza (fer Gel'man). 2. Zhulyanskiy kestekal'nyy zaved (for Fuksman).

(Animal charceal)

OEL'MAN, Ya.

Oll dispensers with batching device. Avt. transp. 34 no.10;
31-32 0 '56.

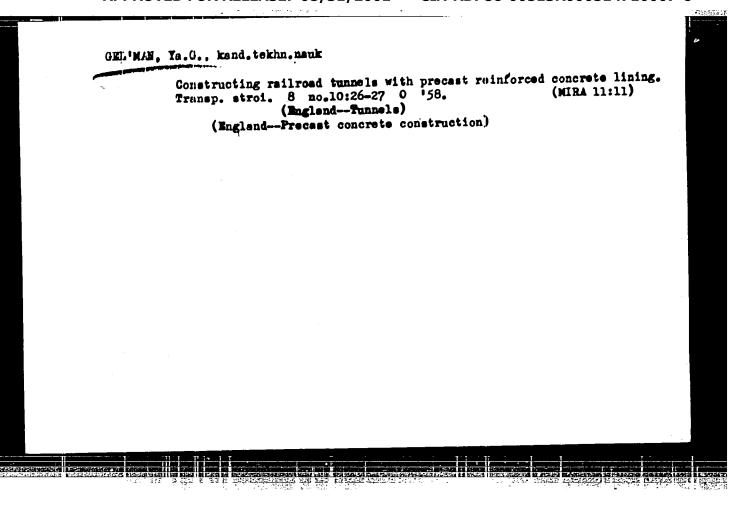
(Automobiles--Labrication)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

GEL'MAN, Ya. G.: "Investigation of the static operation of the bearing structure of the internal shell of column-type subway stations."

Min Transport Machinebuilding USSR. All-Union Sci Res Inst of Transport Machinebuilding. Moscow, 1956, (Dissertation for the Degree of Candidate in Technical Sciences.)

Source: Knizhnaya letopis' No ho 1956 Mcscow



GEL'MAN, Ya.G., kand.tekhn.nauk

Subsurface intersections for traffic in San Francisco and
Washington. Transp.strol. 9 no.3:53-55 Mr 159.

(NIRA 12:4)

(San Francisco--Tunnels) (Vashington, D.C.--Tunnels)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

GEL! MAN, Ya.G., kand. tekhn. nauk Prestressed wholly sectional lining of subway tunnels. Bet. 1 zhel.—bet. 9 no.10:464-466 0 63. (MIRA 16 (MIRA 16:12)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

GELIMAN, Ya.H. Uterine rupture in 32-week pregnancy. Akush. 1 gin. 35 no.1:109 Ja-F 159. 1. Is rayonnoy bol'nitay (glavnyy wrath A.G. Redkokasha) s. Sognovka, Rovenskoy oblasti. (UTERUS-RUPTURE) 主 海洋學學學 跨電 医 化 医结肠 计电影图像多词形

GEL'MAN, Ya. M. Use of leeches in treating inflammatory processes of the female genitalia. Akush. i gin. no.4:83-84 '62. (MIRA 15:7) (LEECHES) (GENERATIVE ORGANS, FEMALE DISEASES)

Gel man , Yer A.

AID P - 4051

Subject

: USSR/Power

Card 1/1

Pub. 26 - 9/33

Authors

: Gel'man, E. A. and P. D. Zubarev, Engs.

Title

: A mobile bridge at the construction of the underground

section of the powerhouse.

Periodical: Elek. sta., 12, 30-35, 1955

Abstract

: A detailed account of the construction of an unnamed power plant with the use of a mobile bridge. The mounting and operation of the bridge are described in

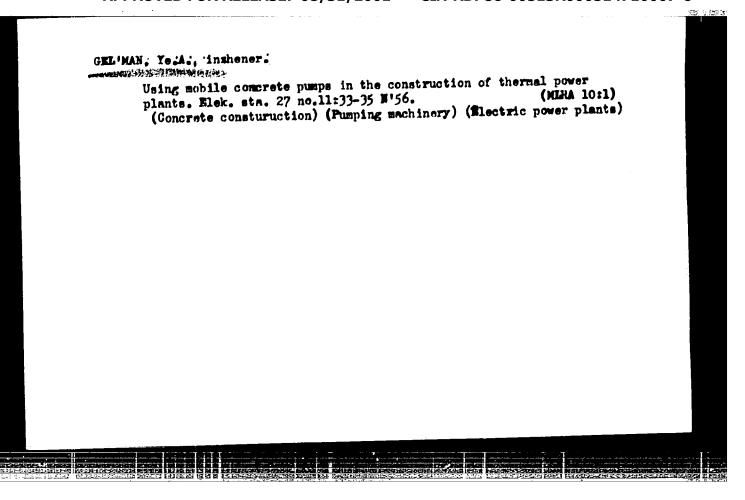
great detail. Seven diagrams.

Institution:

None

Submitted : No date

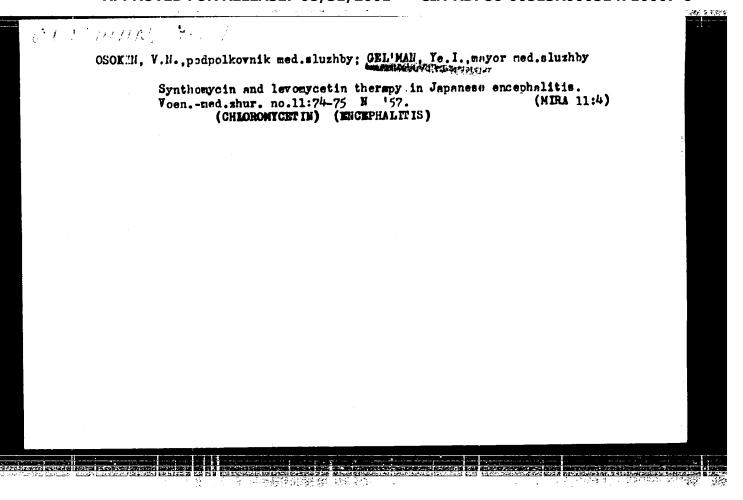
APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"



GEL'MAN, Ye.A., inzh.; DRAGUNOV, Ye.Ya., inzh. Some problems of the organization of the construction of large thermal electric power plants constructed by a universal plant thermal electric power plants constructed by a universal plant thermal electric power plants constructed by a universal plant thermal electric power plants constructed by a universal plant thermal electric power plants are the problems of the organization of the construction of large thermal electric power plants are the problems of the organization of the construction of large thermal electric power plants are the problems of the organization of the construction of large thermal electric power plants constructed by a universal plant electric power plants are the problems of the organization of the constructed by a universal plant electric power plants constructed by a universal plant electric power plants electric power p

1. Moskovskiy filial Vsesoyuznogo instituta po proyektirovaniyu organimateii energeticheskogo stroitel'stva.

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"



S/137/62/000/003/176/191 A160/A101

AUTHOR:

Gel'man, Ye. M.

TITLE:

Determination of rubidium and cesium in minerals, with the use of

ionites and radioactive indicators

PERIODICAL:

Referativnyy zhurnal, metallurgiya, no. 3, 1952, 2, abstract 3 K 6 ("Khim., fiz.-khim. i spektr. metody issled. rud redk. i rasseyan.

elementov, Moscow, Gosgeolteknizdat, 1961, 25 - 30)

Determination of Rb and Cs is based on a method developed by Wells and Stevens, which makes use of different solubilities of K, Rb and Cs chlorides in alcohol saturated with gaseous HCl. In order to obviate a necessity of repeatedly extracting RbCl when separating it out of KCl, use is made of Rb radioactive isotope. In order to extract not less than one half of the total amount of Rb, it is sufficient to perform but 1 - 2 extractions. To separate Rb and Cs more completely, to the precipitating liquid (80 % alcohol saturated with (NH4)2SO4), one adds 0,08 NH4Cl, which increases the solubility of Cs salt to a certain extent, not increasing the solubility of Rb2SO4 and K2SO4. To simplify

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

s/137/62/000/003/176/191 101A/c61A

Determination of rubidium and

the mechanism of separation of K, Rb and Cs chlorides. rock is decomposed with a mixture of HF + HCl + HClO4. K, Rb and Cs form perchlorates difficultly soluble in alcohol, which are then separated-out disssolving in water and converted by means of ion exchange into chlorides. This conversion is made on 3/23-10 (EDE-10) resin in chlorofomfrom a weak hydrochloric acid solution with a concentration of K, Rb and Cs of ~1 mg/ml. The thus separated-out chlorides are somewhat contaminated with Al, Fe and other metals, the removal of which from alkali metal chlorides is not difficult.

N. Gertseva

[Abstracter's note: Complete translation]

Card 2/2

CIA-RDP86-00513R000514710007-6" APPROVED FOR RELEASE: 08/31/2001

37696

S/126/62/013/004/004/022 E021/E435

人名英格兰人姓氏格特 医红色红

AUTHORS: Pavlovsk

Pavlovskaya, V.S., Gel'man, Yu.A.

TITLE:

Study of the ageing of aluminium-zinc alloys by the

method of nuclear magnetic resonance

PERIODICAL: Fizika metallov, i metallovedeniye, v.13, no.4, 1962,

517-520

TEXT: The natural ageing of Al-Zn alloys containing 7.8, 11.2, 13.9 and 22.9 wt % Zn was studied by means of nuclear magnetic resonance, obtaining data on deviations of the electrical field from cubic symmetry. The alloys, prepared from 99.99% Al and 99.96% Zn, were melted in a muffle furnace at 700°C in graphite crucibles under a flux. After casting into iron moulds, the billets were homogenized at 450°C for 50 hours in evacuated sealed flasks. Powdered samples (53 µ) from the billets were then sealed in an evacuated flask and heated for 1 hour at 500°C to obtain solid solution, cooled to 250°C, held for 30 minutes and quenched in cold water (10°C). After drying on filter paper for 15 to 20 minutes, the powder was placed in the measuring head of a radiospectrometer in a 1.5 cm3 glass tube. The first Card 1/2

Study of the ageing of ...

S/126/62/013/004/004/022 E021/E435

derivatives of the absorption lines from the nucleus A127 were recorded. The main parameters showing the kinetics of ageing are the integral intensity and the mean square width of the lines. With increase in zinc concentration, both parameters decrease showing an increase in the relative number of aluminium nuclei in distorted parts of the lattice. There are two maxima on the I-time curve which are displaced to the left with increase in zinc content, indicating an accelerated ageing with increase in zinc. When the A1-22.9% In alloy was air-cooled in place of waterquenching, the maxima were displaced to the right, indicating a retardation in the ageing process. There are 2 figures.

ASSOCIATION: Moskovskiy institut stali (Moscow Steel Institute)

SUBMITTED: May 21, 1961

Card 2/2

1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

USSR / Farm Animals. Cattle

: Ref Zhur - Biol., No 14, 1958, No 64423 Abs Jour

Author

: Gel'man, Z. Y.

Inst

Title

: Mineral Composition of the Milk of High-Producing Crosses of : Dairy Institute of Vologda

the Black-Spotted Cattle of the Vologda Oblast'

Orig Pub

: Tr. Vologdsk. molochn. in-ta, 1956, vyp. 14, 105-119

Abstract

: The mineral composition of milk (MCM) in 10 cows, crossbreeds of East Friesians and Kholmogory of the 2nd generation, with yearly milk yield of 6,000-8,000 kg. and live weight of 500-600 kg., was studied. The animals were fed complete rations. As mineral supplementation, besides common salt, the cows were given chalk and bone meal during different periods of experimentation. Considerable individual variations of MCM (the greatest range of variations was that in relation to K, 28.7%, the least in regard to P, 13.8%), as

Card 1/2

1,11

15

CIA-RDP86-00513R000514710007-6" APPROVED FOR RELEASE: 08/31/2001

USBR / Farm Animals. Cattle.

Q-2

Abs Jour : Ref Zhur - Biol., No 14, 1958, No 64423

well as variations according to the months of lactation, were determined. As to the content of Ca, P, Mg and Na, the MCM of the crossbreeds under study was close to the MCM of the Yaroslavl' cattle. With increase of the Milk yield, the content of Ca and P in the Milk augmented. A tendency towards a somewhat higher content of Ca and Mg in the summer milk was noted.

Card 2/2

GEL'MAN-VINGGRADOV, K.B.; KUZINA, A.A., dots, red.; PIROGOV, A.I.,

tekhn. red.

[Microfilming documentary materials and the organization of work with microfilms in Soviet archives] Mikrofotokopirovanie dokumental'nykh materialov i organizatsiia raboty s mikrofotokopiiami v arkhivakh SSSR. Ped red. A.A.Kuzina. Moskwa, M-vovysshego i srednego spetsial'nogo obrazovaniia RSFSR, 1961. 183 p.

(Microphotography)

(Microphotography)

GEL'MANOY, E.; KHURIN, Mikhail (g.Lipetsk); VOROTNIKOY, A.

Good lucki. Tekh.mol. 28 no.6:1-3 '60. (MIRA 13:7)

1. Glavnyy inshener Veletekogo elementnogo savoda (for Gel'manoy). 2.
Perryy sekretar' Lipetskogo obkoma konsomola (for Vorotnikov).

(Efficiency, Industrial)

CIA-RDP86-00513R000514710007-6 "APPROVED FOR RELEASE: 08/31/2001

GEL'MANOVA, S.Z.; MENZHINSKIY, Ye.A.; BATASOV, S.A. [Economic conditions of capitalist countries; survey of economic trends in 1962. and the beginning of 1963] Eko-

nomicheskoe polozhenie kapitalisticheskikh stran; kon'iutkurnyi obzor za 1962 g. i nachalo 1963 g. Moskva, Izd-vo "Pravda," 1963. 157 p. (Economic history) (MIRA 16:9)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

GEL!MAN-VINOGRADOV, K.B.

History of the processing of punched cards by manual sorting.

NTI no.9124-25 *64.

(MIRA 18:2)

可能主义的 野雞雞 医影的

SANTA CONTRACTO CONTRACTO

GEL'MER, V.O., kand.tekhn, nauk

How to determine the composition and adheriveness of bitumen and tar according to nomograms. Avt. dor. 21 no. 7:22-24 Jl 158.

(Bitumen)

(Tar)

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

į

VOLKOV, Mikhail Iyanovich, prof.; GEL'MER, Vladimir Gakarovich, kand. tekhn.nauk; ZASHCHEPIE, Archiey Firition; Band, Wakhn.nauk; LYSIKHIMA, Aleksandra Ivanovna, kand.tekhn.nauk; MIKHAYLOV, Valentin Vasil'yevich, kand.tekhn.nauk; PANTELEYEV, Fedor Mikolayevich, kand. tekhn. nauk; SAMOYLOV, Mikhail Pavlovich, insh.; ORNATSKIY. M.V., prof., doktor tekhn.namk, glavnyy red.; MOROZOV, V.I., red.; MAL'KOVA, M.V., tekhn.red.

177

[Handbook for road engineers; road materials] Spravochnik inshenera-doroshnika; doroshno-stroitel nye materialy. Moskva, Mauchno-tekhn.isd-vo M-va avtomobil'nogo transp. i shosseinykh (MIRA 12:8) dorog RSFSR, 1959. 308 p. (Read materials)

CIA-RDP86-00513R000514710007-6" APPROVED FOR RELEASE: 08/31/2001

VOLKOV, Mikhail Ivanovich, prof.; GEL'MER, Vladimir Oskarovich, dotsent, kand.tekhn.nauk; ZASOBIN, Euka Fedorovich, dotsent, kand.tekhn.nauk, [deceased]; PANTHEYEV, Fedor Mikolayevich, dotsent, kand.tekhn.nauk; IEGOZOV, V.P., red.; NAL'KOVA, N.V., tekhn.red.

[Road materials] Doroshno-stroitel'nye materialy. Izd.3., perer. Moskva, Mauchno-tekhn.isd-vo M-va avtomobil'nogo transporta i shosseinykh dorog RSFSR, 1960. 543 p. (MIRA 13:7) (Road materials)

GEL'mgol'ta, N. F.

"Certain Considerations Concerning the Classification of Clouds" Trudy Kazakhak. n.-i. Gidromet. in-ta, No 2, 1954, 32-39

The international mr atlas of clouds (published in 1929) possesses serious deficiencies relative to the systematics of clouds, namenclature of shapes, and varieties and sufficient orderliness of the classification itself. The author proposes the following scheme of classification: Families -- (1) clouds of stable air masses, mainly St and Sc; (2) clouds of unstable air masses, mainly Cy, intramass Cb, Ac mank, cast, clouds associated with Cb etc.; (3) frontal clouds, certain forms of Ci, Cs, As, Ns, frontal Cb, Ac, Sc, etc.; (4) clouds of degraduating processes, certain Ci, Ce, Ac lent, Ac virga, etc. System - genus, species, variety (this is to replace the system shape, variety, special formations). Adding to the lo existing shapes an 11th shape Fn as an independently existing one, the author proposes principal cloud shapes: Ci, Ce, Ac, Sc Cs, Ac, Ns, Fn, St, Cu, Cb. (RZhGeol, No 9, 1955)

50: Sum-No 845, 7 Mar 56

GELIMGOLITS, N. F.

"Improvement and Acceleration of the Processing of Aerological Observations".

<u>Trudy Kasakhek n.-i. gidromet. in-ta</u>, No 2, pp 52-58, 1954.

The considerable errors arising during calculations of pressure at great heights according to data of vertical sounding by existing graphical methods prompt the author to propose and analytical method. Employing a barmetric formula he derives a formula for the interpolation $A(\log p) = (\log p/AH) \cdot AH$, where $A\log p$ is the difference of the logarithms of two known pressures p_1 and p_2 , AH is the difference of heights for these pressures, $(\log P)$ is the difference between $\log p_1$ and the logrithm of the desired pressure, and AH is the difference between the sought-for height and the height with pressure P_1 . The formula for wetrapolation possesses a similar form. (RZhGeol, No 10, 1955)

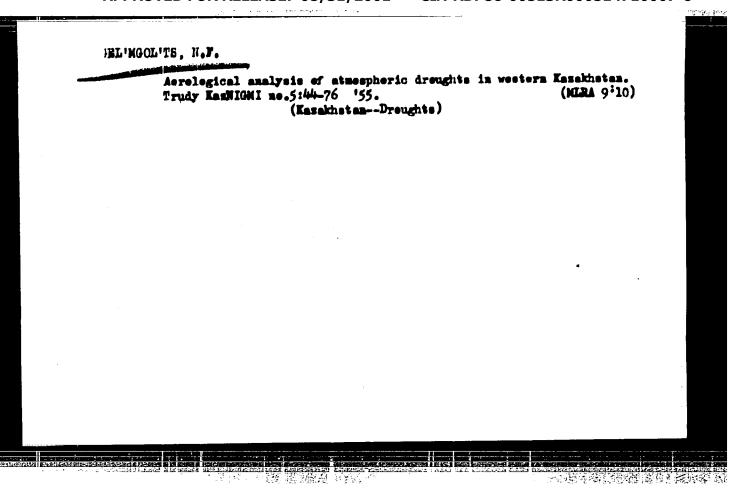
SO: Sum No 884, 9 Apr 1956

"Atmospheric Fronts and Precipitation in the Lowland Part of Kazakhsten" Vestn. Ali Hazakh BBR, No 5, 65-72, 1954

The author considers the connection between the atmismeric fronts and the precipitation in Hazakhstan according to data of meteorological and aerological observations for 1902, and established the quantity of pricipitation beculiar to various fronts at different times of the year. Warm and cold fronts give precipitation (clove 0.5 am) only in 40,0 of the cases. The greatest emount of precipitation (round 7,0 of all sums of precipitation) falls during the passage of cold fronts; the least, during passage of warm fronts and occlusion fronts. (Kandeol, No 6, 1954)

50: 5um. 492, 12 may 55

The second of th

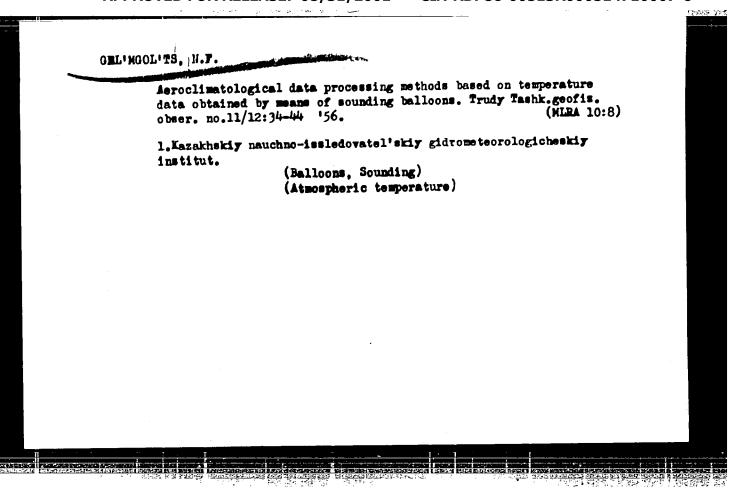


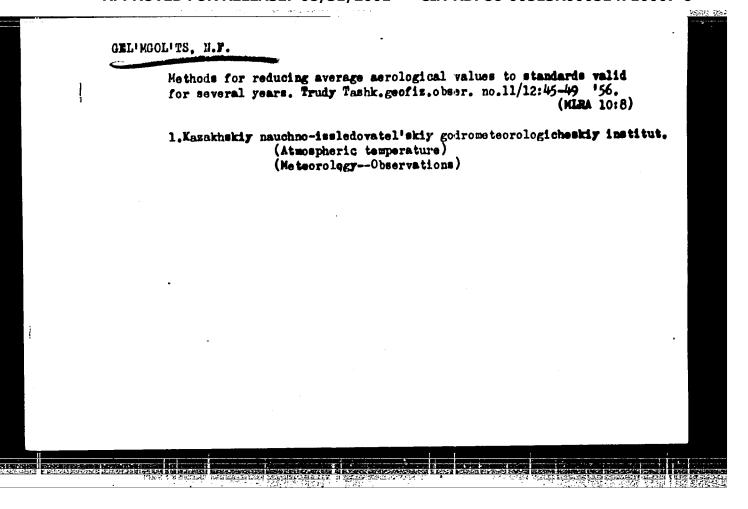
OBL'MOOL'TS, N.F.

Asquirements for series of acrological observations to obtain average values of given accuracy. Trudy Tashk.geofiz.obser.

no.11/12:25-33 '56. (MERA 10:8)

1.Kazakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut. (Meteorology--Observations)





APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

UTIMAGANBETOV, M.M., kand.geogr.nauk; BERLYAND, T.G., kand.geogr.nauk;

BEZVKEKHNIY, Sh.A., kand.fiz.-matem.nauk; BAYDAL, M.Kh., kand.

geogr.nauk; KUZNETSOV, A.T., kand.geogr.nauk; CHUBUKOV, L.A.,

doktor geogr.nauk; SHYREVA, Yu.G., mladshiy nauchnyy storudnik;

UTESHEV, A.S., kand.geogr.nauk; GOL!TSBERG, I.A., doktor geogr.

nauk; KLYKOVA, Z.D., starshiy nauchnyy sotrudnik; MEN!SHIKOVA,

Ye.A., mladshiy nauchnyy sotrudnik; OKL!MQOL!TS, N.F., starshiy

nauchnyy sotrudnik; PROKHOROV, I.I., starshiy nauchnyy sotrudnik;

TKACHENKO, N.S., mladshiy nauchnyy sotrudnik; ZHDANOVA, L.P.,

red.; BRAYNINA, M.I., tekhn.red.

[Climate of Kazakhatan] Klimat Kazakhatana. Pod red. A.S.Ute-sheva. Leningrad, Gidrometeor.izd-vo. 1959. 366 p.
(MIRA 13:5)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy slushby. 2. Kazakhskiy pedagogicheskiy institut
(KazPI) (for Utimagambetov). 3. Glavnaya geofizicheskaya observatoriya im. A.I.Voyeykova (GGO) (for Berlyand, Gol'tsberg). 4. Kasakhskiy nauchno-issledovatel'skiy gidrometeorologicheskiy institut KazNIGMI) (for Besverkhniy, Baydal, Kuznetsov, Uteshev, Klykova, Men'shikova, Gel'mgol'ts, Prokhorov, Tkachenko). 5. Institut geografii Akademii nauk SSSR (IG AH SSSR) for Shvyreva).
(Kazakhstan-Climate)

s/169/60/000/011/012/016 A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 11, p. 137, # 14246

AUTHOR:

Gel'mgol'ts, N.F.

TITLE:

The Evolution Conditions of the Atmospheric Turbulence in the Foot

Hill Zone of South-East Kazakhstan

PERIODICAL:

Tr. Kazakhsk. n-1. gidrometeorol. in-ta, 1959, No. 11, pp. 152-161

The processing results are presented of expedition flights on the TEXT: route Alma-Ata - Frunze - Dzhambul - Chikment in the time from March 20 to April 11, 1956. The flights were carried out in the main at steady weather. The aerological data were recorded according to the observation data from theodolite locators (3 points along the route) and sounding balloons (also at 3 points). The aircraft load factors recorded by an accelerograph served as indicator of bumpy air. The analysis performed showed that the bumpy air intensity decreases with the altitude up to the 5 - 6-km-level, but the tendency to increase is stated at higher altitudes. (The flights were performed up to the altitude of 7 km). The intensity distribution of bumpy air along the route and the diurnal course are presented for

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R000514710007-6"

S/169/60/000/011/012/016 A005/A001

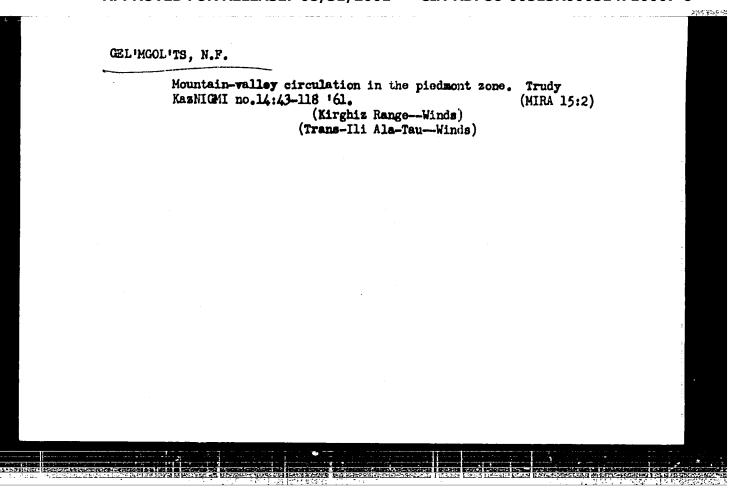
The Evolution Conditions of the Atmospheric Turbulence in the Foot Hill Zone of South-East Kazakhstan

the stations at Alma-Ata and Frunze. No dependence of bumpy air on the magnitudes of speed and wind shift was practically detected; more closed connections exist with thermal factors; the vertical temperature gradients, the ground temperature (only in the lower 2-km-layer), and the evolution degree of the convection cloudiness. The absence of a closed connection with the dynamical factor is explainable in the author's opinion by the weakness of winds in the southern Kazakhstan.

A.S. Dubov

Translator's nota: This is the full translation of the original Russian abstract.

Card 2/2



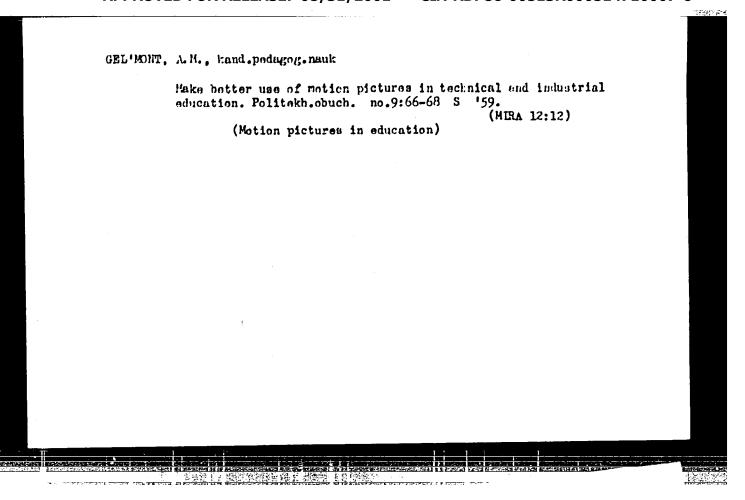
GEL'MGOL'TS, Nikolay Fedorovich; KOTIKOVSKAYA, A.B., red.; NIKOLAYEVA, G.S., tekhn. red.

[Mountain and valley circulation on the northern slopes of the Tien Shan] Gorno-dolinnaia tsirkuliatsiia severnykh sklonov Tian'-Shania. Leningrad, Gidrometeoizdat, 1963. 328 p. (MJRA 17:1)

GEL'MROL'TS, N.F.

Atmospheric turbulence and smooth flights in the zone of tropophuse and jet atreams. Trudy KazNIGMI no.19:3-30 '63.

Cloud forms above Kazakhstan. Ibid.:102-133 (MIRA 17:3)



FAT(1)/EHO(1)/T P=-6 IJP(c)/ASD(a)-5/AFWL/ESD(ge)/ESD(t)/RAUH(t) AT 3/0131/64/006/009/2856/2857 ACCESSION NR: AP4044966 56 AUTHORS: Gurevich, L. E.; Gel'mont, B. L. TITLE: Transverse galvanomagnetic waves and their detection by means of resonance phenomena SOURCE: Fizika tverdogo tela, v. 6, no. 9, 1964, 2856-2857 TOPIC TAGS: qualvanomagnetic wave, resonance, semiconductor, semi-ABSTRACT: Referring to the observation of the oscillatory galvanometal, carrier density magnetic effect in metallic sodium by R. Bowers, C. Legendy, and F. Rose (Fhys. Fev. Letters v. 7, No. 9, 339, 1961), the authors calculate from their data the impedance of the primary circuit of their test setup as a function of the frequency, and show that in addition to the maximum observed by Bowers et al., there is also a frequency corresponding to a minimum, at which the impedance changes from ACCESSION NEL AP4044966

Capappagore For Release: 08/31/2001 CIA-RDP86-UU--
Capappagore CiD inductive, and which was not taken into account at CIA-RDP86-00513R000514710007-6 all. It is Eurther pointed out that the galvanomagnetic effect frequency can be observed not only in metals but also in semiconductors and semimetals having a single type of carrier, but owing to the lower carrier density the frequencies will be much higher. Orig. ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. loffe AN SSSR, Leningrad (Physicotechnical Institute, AN SSSR) SUBMITTED: 13Apr64 SUB CODE: SS, 15M NR REF & JVI 002

1	L 15059-65 EMP(In)/EWT(1)/EWG(k)/EPA(ep)-2/EMG(v)/EWA(d)/EMA(d)/EMA(w)-2/EEC(t)/ T-2/EEC(b)-2/EWA(m)-2 Pi-2/Pe-5/Po-4/P2-4/P1-4/P2-4/Pab-10/Pae-2 LIP(c)/ESD/ SSD(b)/AEDC(a)/SSD/ASD(a)-5/ASD(f)-2/AFWL/ASD(p)-3/AFETH/RAEM(a)/RAEM(c)/ESD(gs)/ ESD(t)/AT/GW	
	ACCESS 10H HR: AP4045270 8/0057/64/034/003/1597/1604	
	AUTHOR: Gurevich, 1, E.; Gal'mont, B.L.	
	FITE: Contribution to the theory of thermomagnetohydrodynamic waves in a weakly monuniform plasma	
	SOURCE: Zhurnal teldinicheskoy fimiki, v.34, no.8, 1964, 1597-1804	
	TOPIC TAGS: nonunicorm plasma, weakly ionized plasma, wave propagation, magnetohyd-rodynamics, star	
	ABSTRACT: The authors have previously discussed the propagation of waves in a fully ionized plasma in a uniform magnetic field in the presence of small temperature and density gradients (ZhETF 44,048,1963; 46,884,1964). In the present paper they	1
	extend this discussion to the case of a weakly ionized plasms. The calculations are based on the magnetichydrodynamic equations of motion of a viscous gas, with terms in the expressions for the electric field and the heat flux to take account of the thermomagnetic current. The linearized equations for a largeaic perturbation were	
	derived and the corresponding dispersion equation is written. In the derivation of the dispersion equation it was assumed that the period of the cacillations is long.	
ų,		A manufacture
. !		

15059-65

ACCESSION NR: AP4045270

a stille the Mariago at I had the Robert to be with the

compared with the electron mean free time, that the wavelength is short compared with the length characterizing the nonuniformity of the plasma, and that the magnetic pressure is small compared with the kinetic pressure. The solutions of the dispersion equation are discussed in detail, and conditions are derived for the Stability of the different types of wave. It is found that in passing from a strongly ionized to a weakly ionized plasma the propagation direction of the thermomagnetic vaves changes, and there is a region from which the waves are reflected. This situs tion occurs in stars, where the outer region is weakly ionized and the inner region is completely ionized. Both Alfven waves and thermomagnetic waves are found to be linearly polarized when the conditions for their stability are met, and to be elliptically polarized when they are unstable. The instability of the thermomagnetic waves in a stomic magnetic field is discussed in the drift approximation for the case in which the temperature gradient is parallel to the applied magnetic field. The dispersion equation thus found is consistent with that obtained in the magnetohydrodynamic approximation. The drift theory shows that the instability of a plasma in a strong magnetic field in the presence of a temperature gradient is due to drift of particles occasioned by an inertial force acting on the ions. Orig. art. has: 61 formulas.

		BE175.70
	് പ്രവാധ വരു	
,		
	de la la comparta de la fina de la fina de la fina de la comparta de la la la comparta de la comparta de la co La comparta de la co	
1		
	L 15059-65	
.,	ACCESSION NR: AP 40-15270	÷ .
	A STATE OF THE STA	
	ASSOCIATION: Fiziko-tekhricheskiy institut im.A.F. Ioffe AN SUSR, Leningrad (Physie	
	co-technical Institute, AM 888R)	
	SUBMITTED: 02Den63	G.
1	Annual Section of Basillating (Section 1988) (Basillatin 1988) (Basillatin 1984) (Basillatin 1984) (Basillatin	
	SUB CODE: ME OTHER; COL	
		į
#1.00.0 		
.		
	3/3	
223.56		201722
	그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	

ACCESSION NR: AP4025921

S/0056/64/046/003/0884/0901

AUTHOR: Gurevich, L. E.; Gel'mont, B. L.

TITLE: Hydrothermonagnetic waves in a weakly inhomogeneous plasma

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 46, no. 3, 1964, 884-901

TOPIC TAGS: plasma, plasma stability, global instability, local instability, hydrothermomagnetic wave, plasma temperature gradient, plasma density gradient, plasma dielectric constant, electron larmor frequency, electron relaxation time, convective instability, absolute instability, poloidal field, totoidal field

ABSTRACT: local instability, characterized by development of local fluctuations and considered by Rudakow and Sagedeyev (Yaderny'ny sinetz, Appedix 2, 1952) for the case of a collisionless plasma, is considered in the case of hydrothermal magnetic waves in a weakly inhomogeneous plasma with a small temperature or density gradient or a constant electric field (the case of nonzero temperature gradient and a uniform weak magnetic field was considered by the author earlier in ZhETF v. 44, 548, 1963). The general equations obtained are rather complicated, and consequently the relation between this type of instability and the lord 1/4

ACCESSION NR: AP4025921

instability of the system as a whole (global instability) is considered for the simplest case of a system with a dielectric constant that varies in one direction only and is nonvanishing in the entire region under consideration. It is shown that the appearance of a positive imaginary frequency component denotes the transition of the system from local to global instability. The character of the instability is examined for several values of $\Omega \tau(\Omega)$ — electron larmor frequency and τ — electron relaxation time). When $\Omega \tau$ <<1 the instability is convective, when $\Omega \tau$ > 1 it is absolute. The growth rate of the instability is shown to be a maximum when the wave vector, the magnetic field vector, and the temperature gradient vector are parallel. The instability of hydrothermomagnetic waves in a weak magnetic field and in a strong magnetic field is also analyzed and the case when radiative thermal conductivity predominates is examined. It is shown that the presence of instability in an external poloidal field may give rise to a toroidal field and vice versa. This mechanism may be of significance in the creation of the magnetic field of calestial bodies. Orig. art. has: 65 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe AN SSSR (Physico-technical Institute AN SSSR)

SUBMITTED: 12Jul63

DATE ACQ: 16Apr64

ENCL: 00

IJP(c) ENT(1)/ENT(m)/EEC(t)/ENP(t)/ENP(b) 1. 21829-65 ACCESSION NRI AP5000336 AUTHOR: Gurevich, L. E.; Gel'mont, B. L. TITLE: Thermonignetic waves in a solid body SOURCE: Zhurnal eksperimental noy i teoreticheskoy fiziki, v. no. 5, 1964, 1806-1813 TOPIC TAGS: thermomagnetic wave, thermomagnetism, thermal emf, bismuth copper ABSTRACT: It is demonstrated that at sufficiently low temperatures in a number of netals and semi-metals thermomagnetic waves can be detected which are similar to those discovered earlier by one of the authors in a nonhomogeneous plasma with a temperature gradient (L. E. Gurevich, ZhETP, 44, 548, 1963). In the case of Bi and Cu, the waves appear at temperatures of the order of 20-30K and lower. Similarly, as was observed in a plasma, these waves in solids can show an increasing amplitude. In a weak magnetic field, when the Larmor frequency of electrons is much smaller than the frequency of collisions,

1. 21829-65

ACCESSION NRI AP5000336

the instability is convective, while in a strong fileld it bucomes absolute. In the case of one-sign carriers, the increase of the thermal emf resulting, for example, from the phonon-drag of electrons or from peculiarities in electron scattering can change substantially the critical temperature gradient and the critical magnetic field, as well as the escillation increment in the presence of the instability. If the number of carriers of both signs is equal, the thermal emf along with the decillation increment can, in a strong magnetic field, increase markedly. In such a field, when the temperature is close to zero, the thermomagnetic waves turn into waves with quadratic spectra. Orig. art. has: 27 formulas.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe (Physital-Technical Institute)

SUBHITTED: 24Apr64

ENCL: 00 - SUB CODE: ME, EM

OTHER: 002

- ATD PRESS:

Card 2/2

Pt-10 IJP(c) GG EPA(s)-2/EWI(1) L 33521-65 8/0181/65/007/003/0597/0706 AP5005869 ACCESSION NR: AU HOR: Gurevich, L. E.; Gel'mont, B. L. Ferromagnetic waves in solids and methods for their experimental observatim SOURCE: Fizika tverdogo tela, v. 7, no. 3, 1965, 697-706 TOPIC TAGS: thermomagnetic wave, temperature gradient, convective instability, absolute instability, impedance oscillation AESTRACT: The article deals with a new type of wave that can propagate in a medium in which a temperature gradient exists, a wave the authors investigated earlier and called thermomagnetic (ZhETF v. 14, 548, 1963 and v. 47, 1806, 1964). It such a wave is made to propagate in the inductance-coil core in which the temperature gradient is perpendicular to the conserve, then the impedance of the coul can change noticeably, depending on the type of instability (convective or absolute), and it is shown that this phenomenon can be used to observe experimentally the presence of thereconquetic waves. The active component of the coil impedance oscillates as a function of the frequency, while the reactive component reverses sign Card 1/2

L 38521-65 AP5006869 ACCESSION NIL under certain conditions. In the presence of a segnetic field parallel to the tenperature gradient, the active resistance of the coil becomes negative in the presence of conventive instability, and oscillations with frequency that depend on the load resistance can be produced in the circuit. In the region of absolute instubility, the resultant oscillations are independent of the Losi. In that case the oscillation frequencies depend on the magnetic field intensity and on the temperature gradient. In the transition region between the convective and absolute instabilities, both waves may exist simultaneously. Orig. art. has: 1 (igure and 31 formulas. ASSOCIATION: Fiziko-tekinicheskiy institut im. A. F. Toffe AN SSSR, Leningrad (Physicotechnical Institute, AM SSSR) ENB CODIS: EM, NE 00 ENCL: SUMMITTED: 25Jun64 ATD PRESS: 3226 OTHER: 000 NO REF SOVE Curd 2/2 mm

GURRVICE, L.E., prof. (isningrad); GEL'MONT, B.L. (Leningrad)

Thermomagnetic waves. Priroda 54 no.2277-78 P *65. (MIRA 18:10)

EWT(1) IJP(c) L 45097-66

ACC NR: AP6024879

UR/0056/66/051/001/0183/0193 SOURCE CODE:

59

AUTHOR: Gurevich, L. E.; Gel'mont, B. L.

ORG: Physicotechnical Institute im. A. F. Ioffe, Academy of Sciences SSSR (Fizikotekhnicheskiy institut Akademii nauk SSSR)

TITLE: Nonlinear theory of thermomagnetic waves

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 51, no. 1, 1966, 183-193

TOPIC TACS: noncollisional plasma, plasma instability, semimetal, thermomagnetic WAVE , NONLINEAR THEORY, TRAVELING WAVE, STANDING WAVE

ABSTRACT: The nature of thermomagnetic waves and their amplification in the presence of instability are qualitatively described. Two possible experiments in which the waves may be detected are considered. In one of them the thermomagnetic waves are traveling waves and in the other, standing waves. An exact solution of the nonlinear equation for the stationary state is given for the first case. The conditions for realization of the first case are investigated and are found to be identical with the condition for the soft excitation regime. The kinetics of the development of instability, conditions for soft and hard excitation, and the stationary state for a small excess of the temperature gradient with respect to its critical value are investigated for the second case. The conditions for feasibility of the two experi-

Card 1/2

ACC NR: AP6024879		Ó
ments are compared. Orig. art. has: 46 formulas.		[OR1
SUB CODE: 20/ SUBM DATE: 06Jan66/ ORIG REF: 006/		(cs)
		-
		-
Cord 2/2 b1g	•	
		

GEL MONT, Z. t/m.
USSK/Electronics - Piezoelectric Filters

FD-2226

江西西山 网络国际亚马利

Card 1/1

Pub 90-6/12

Author.

: *Velikin, Ya. I., *Gel'mont. Z. Ya., *Zelyakh, E. V.

Title

: High-pass piezoelectric filter

Periodical: Radiotekhnika, 10, 41-49, Mar 1955

Ab. mact

: Theory and methods of calculation of a certain type of high-pass piezoelectric filter are presented in this article. Analysis of the filter circuit, determination of the characteristic parameters of the filter, derivation of formulas for calculation of resonant frequencies and operating attenuations are explained in detail. The calculated values of the high-pass piezoelectric filter characteristics were checked experimentally, and were found to be in good agreement. Two USSR references cited. For-

mulas; graphs.

Institution: *Active members of the All-Union Scientific and Technical Society of Radio

Engineering and Electric Communications imeni A. S. Popov, Moscow

Submitted: 22 Apr 1954

GELMONT Z. YA.

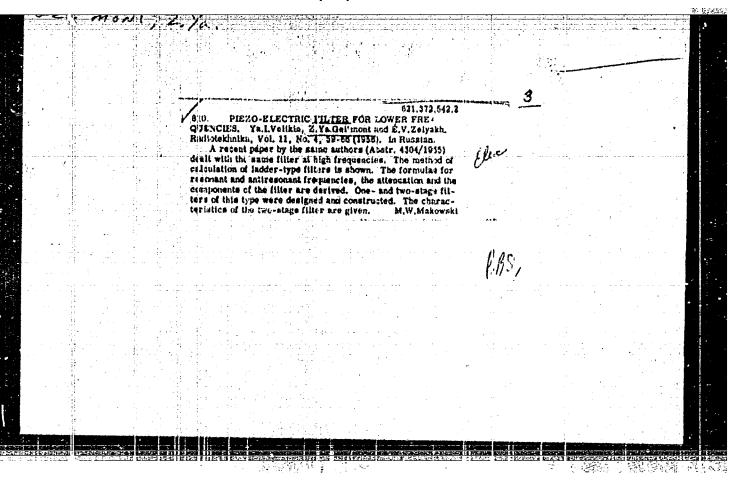
Class 21al, 2202, No. 102860. Ya. I. Velikin, Z. Ya. Gel'mont and E. V. Zelyakh. Electric Band-Elimination Filter.

To reduce distortion of the transmitted signal it is suggested that extension arms, having characteristic resistances approximately equal to the nominal resistance of the filters, be connected at the input and output of series-connected filters of low and high frequencies formed by the elimination filter.

To widen the range of filter-element values by way of utilizing LF and HF filters with dissimilar nominal resistances, it is suggested that extensions be used with the same characteristic resistances at parallel connection and at the filters of low and high frequencies, approximately equal to the nominal resistance of the corresponding filter.

THE REPORT OF THE PARTY OF THE

Authors' Certificates, Elektrosvyaz' No. 9, 1956.



Crystal suppression filter with several excluding bands. Vest. sviazi 16 no.3:6-8 Mr '56. (MIRA 9:7) 1.Starshiy inzhener Mauchno-issledovatel skogo instituta gorod-skoy sel'skoy telefonnoy syyasi. (Radio filters)

"Narrow-band Quartz Filters for the 1 to 10 MC Range," (New Works in the Field of Wire Communication; Collection of Information) Moscow, Svyaz'izdat [1957]

THE MORE, A. TO.

Abst.: NIITS has developed narrow-band quartz filters for the 1 to 10 mc range for cable multiplexing. These filters are needed for separating the currents of the control frequencies which actuate the automatic level control, and the currents of the group converter carrier frequencies. Formulas are given for designing the filter elements, the adapters, and for calculating circuit parameters. This method of designing filters has been tested experimentally.

507/111-58-3-11/29

THE REPORT OF THE PROPERTY OF

AUTHOR:

Gel'mont, Z.Ya., Senior Engineer of NIITS

TITLE:

A Four-Electrode Piezoelectric Resonator for the Frequency Range of 250-600 Kilocycles (Chetyrekhelektrodnyy pygzoelektricheskiy rezonator dlya dispazona chastot 250-600

PERIODICAL:

Vestnik svyazi, 1958, Nr 3, p 12 (USSR)

ABSTRACT:

The author discusses a circuit for a four-electrode resonator with oscillations in the second harmonic, to be used in filters. The application of this circuit reduces by two times the number of resonators in quartz filters serving for separating group carrier frequencies in the high-frequency apparatus "V12". There are five circuit diagrams, one photo

and one graph.

ASSOCIATION: NIITS

Card 1/1

AUTHOR: Gel'mont, Z.Ya.

SOV/106-58-6-10/13

TITLE:

An Unbalanced Low-frequency Piezoelectric Filter (P'yezoelektricheskiy fil'tr nizhnikh chastot po

neuravnoveshennoy skheme)

PERIODICAL: Elektrosvyaz', 1958, Nr 6, pp 67 - 74 (USSR)

ABSTRACT: The filter circuit, which comprises a piezoelectric resonator, three inductance coils and five capacitors, is shown in Figure 1. Figure 2 shows the equivalent X-circuit. Graphs of the impedances of the arms of the equivalent X-circuit are shown in Figure 3a. Using the denotations given in Figure 2 and Figure 3a, the impedances of the filter areas are expressed by Eqs.(1) to (3).

The characteristic transmission constant g is determined

from the formula:

th
$$\frac{g_c}{2} = \sqrt{\frac{z_1}{z_2}} = \frac{jp}{\sqrt{\frac{f_b^2}{f^2} - 1}} \cdot \frac{f_2^2 - f^2}{f_1^2 - f^2}$$

Card 1/4

SOV/106-58-6-10/13 An Unblanced Low-frequency Piezo electric Filter

To find the number of poles of the attenuation characteristic b_c in the stop-band, the modulus of th $g_c/2$ is equated to unity and it is shown that the attenuation characteristic has three poles. The graph of bc is produced in Figure 3b. Frequency fb is the boundary frequency of the theoretical pass-band. For purposes of calculation, the geometric mean of the effective pass-band boundary frequency fx the effective stop-band boundary frequency f_k is taken as the frequency fb (Ref 1). The resonant frequencies f_1 and f_2 in the pass-band are calculated by Eqs.(7) and (8) (Ref 2). The characteristic impedance $\mathbf{Z}_{\mathbf{c}}$ of the filter is given in Eq.(13). A graph of the characteristic impedance calculated by Formula (13) is given in Figure 3. The frequency $f_{\rm C}$ in the stop-band is chosen so as to give Card2/4 best matching of the impedance in the pass-band with the

CIA-RDP86-00513R000514710007-6"

APPROVED FOR RELEASE: 08/31/2001

An Unbalanced Low-frequency Piezelectric Filter

load impedance R_o . The limit of the effective pass-band $f_{\mathbf{X}}$ is the point where the impedance Z_c equals the nominal impedance R_{nom} , i.e. Z_c for f=0. Maximum impedance of Z_c corresponds to the frequency:

$$f_{m} = \sqrt{2f_{b}^{2} - f_{c}^{2}}$$

and corresponds to:

$$z_{c \text{ max}} = \frac{1}{2\pi pc_1 \sqrt{r_c^2 - r_b^2}}$$
.

Formulae for calculation of the filter elements and for finding the working attenuation are produced. It is shown that calculation of the working attenuation in the stop-band amounts to finding, and then summating, seven simple components. The calculation is simplified by use

Card 3/4

An Unbalanced Low-frequency Piezo-electric Filter SOV/106-58-6-10/13

of the graphs given in Figures 6 to 8. Figure 9 shows the characteristic of the working attenuation of a filter

There are 9 figures and 5 references, 4 of which are Soviet and 1 German.

SUBMITTED: December 18, 1957

Card 4/4 1. Piezoelectric filters-Analysis

AUTHOR: Gel'mont, Z.Ya.

SOV/106-58-12-8/13

TITLE:

Piezoelectric Filters with an Inductor Maving a Given Coupling Coefficient (Pyezoelektricheskiye filitry, soderzhashchiye katushki induktivnosti s zadannym koeffitsiyudum svyazi)

PERIODICAL: Elektrosvyaz', 1958, Nr 12, pp 58 - 64 (USSR)

ABSTRACT: The use of inductively coupled coils in piezoelectric filters gives flexibility and economy of components; one double-winding coil is equivalent to two single-winding inductances and its impedance transformation properties permit a wide range of resonator dimensions and capacity values. Low-pass and high-pass piezoelectric filter circuits, both balanced and unbalanced, were given by Mason, Velikin et al, and Herzog (Refs 1-4). These circuits are simplified in this article, so that fewer components are used. The balanced circuits and their characteristics are given in Fig 1 and the unbalanced circuits in Figs 4,5 and 6. The equivalent circuits are obtained by replacing the piezoelectric resonators by their equivalent circuits and the inductor by the circuit shown in Fig 2. The voltage- and current-resonance